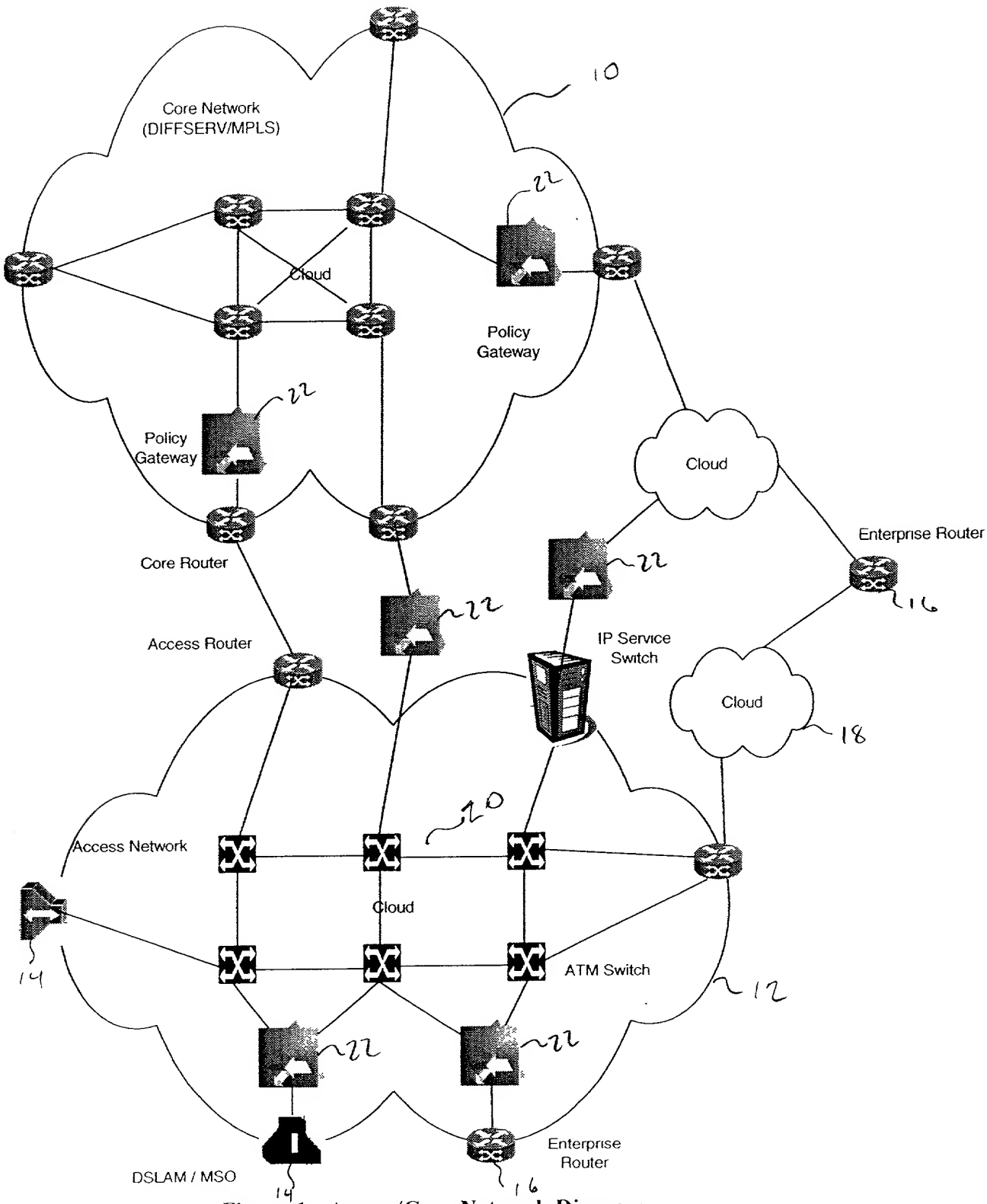

Figure 1: Access/Core Network Diagram

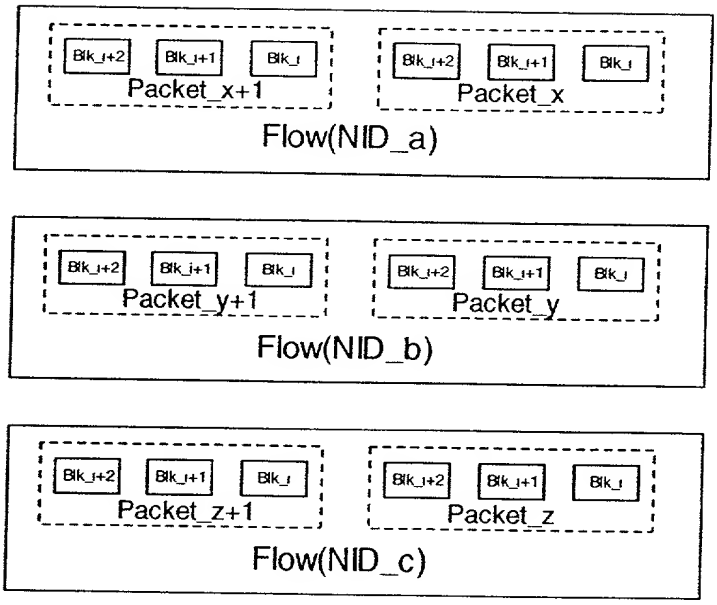
Blk_i+2
Blk_i+1
Blk_i
Packet_x+1
Packet_x
Flow(NID_a)
Packet_y+1
Packet_y
Flow(NID_b)
Packet_z+1
Packet_z
Flow(NID_c)

FIG. 2

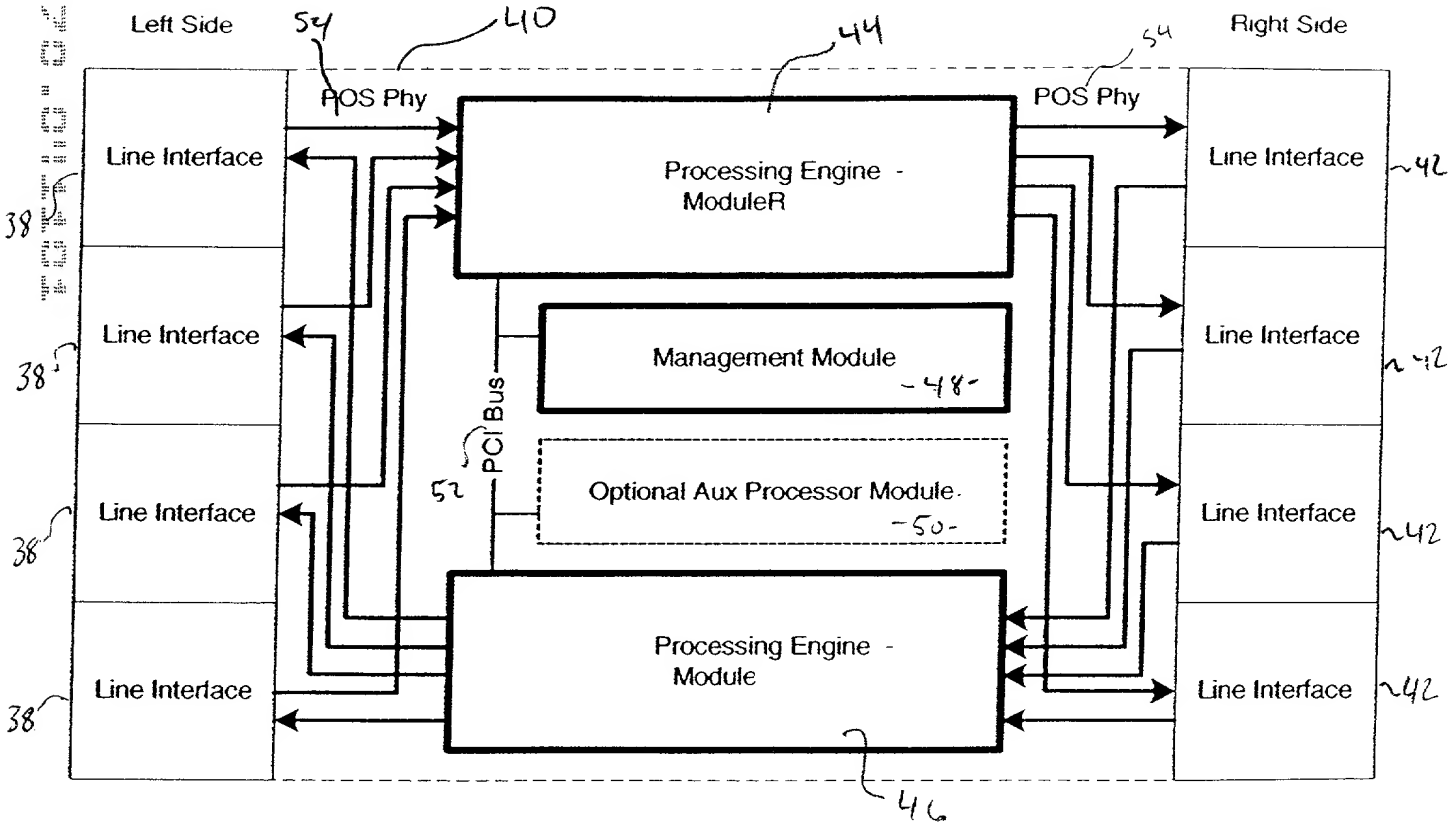
Left Side
54
40
44
54
Right Side
POS Phy
POS Phy
Line Interface
Line Interface
Line Interface
Line Interface
Line Interface
Line Interface
Line Interface
Line Interface
Processing Engine - ModuleR
Management Module
48
PCI Bus
52
Optional Aux Processor Module
50
Processing Engine - Module
46
38
38
38
38
42
42
42
42

FIG 3

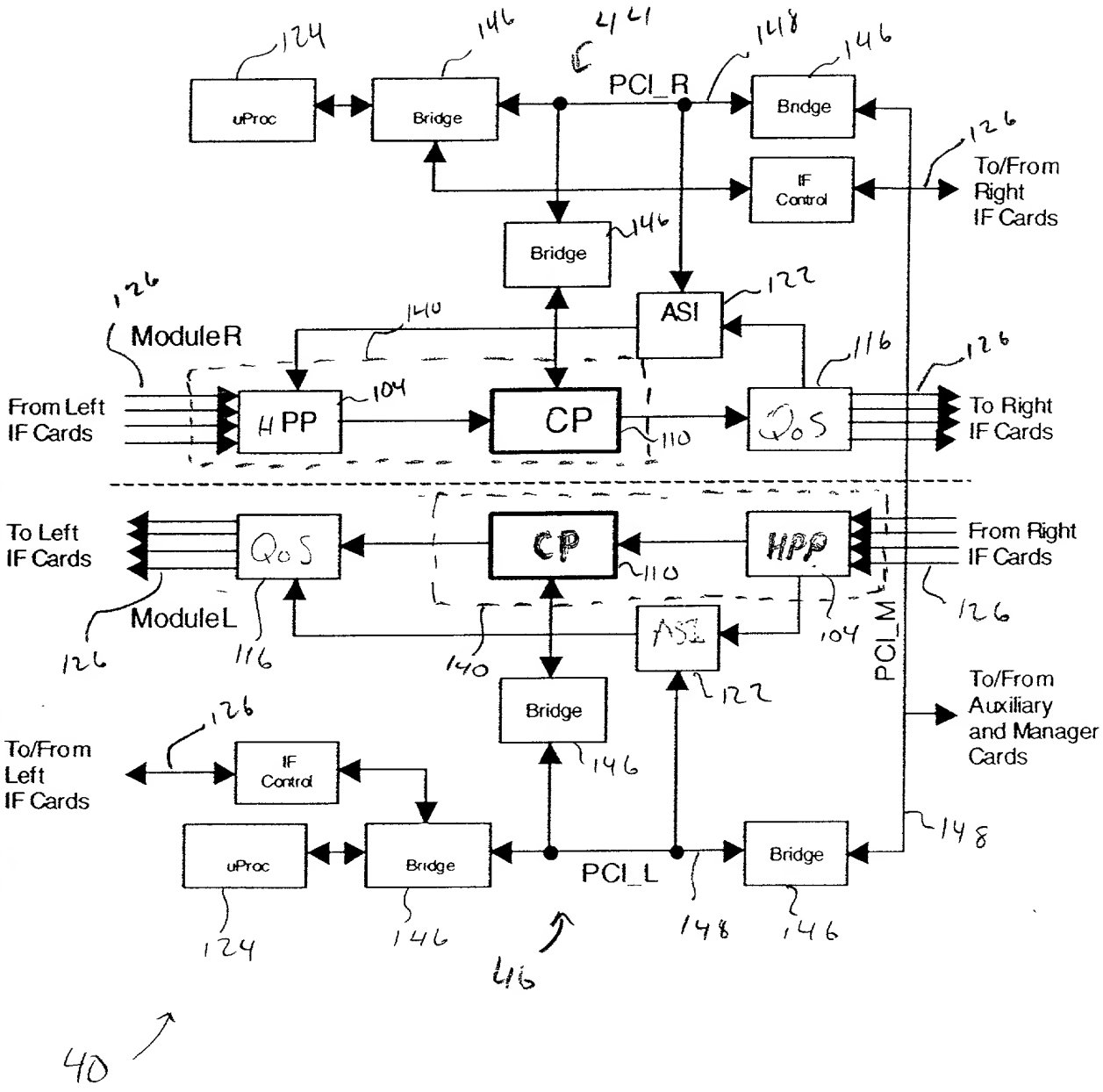
uProc
Bridge
PCI_R
Bridge
IF Control
To/From Right IF Cards
Bridge
ASI
Module R
From Left IF Cards
HPP
CP
QoS
To Right IF Cards
To Left IF Cards
QoS
CP
HPP
From Right IF Cards
Module L
ASI
PCI_M
Bridge
To/From Auxiliary and Manager Cards
To/From Left IF Cards
IF Control
uProc
Bridge
PCI_L
Bridge
124
146
141
148
126
104
110
116
122
140
40
46

FIG. 4

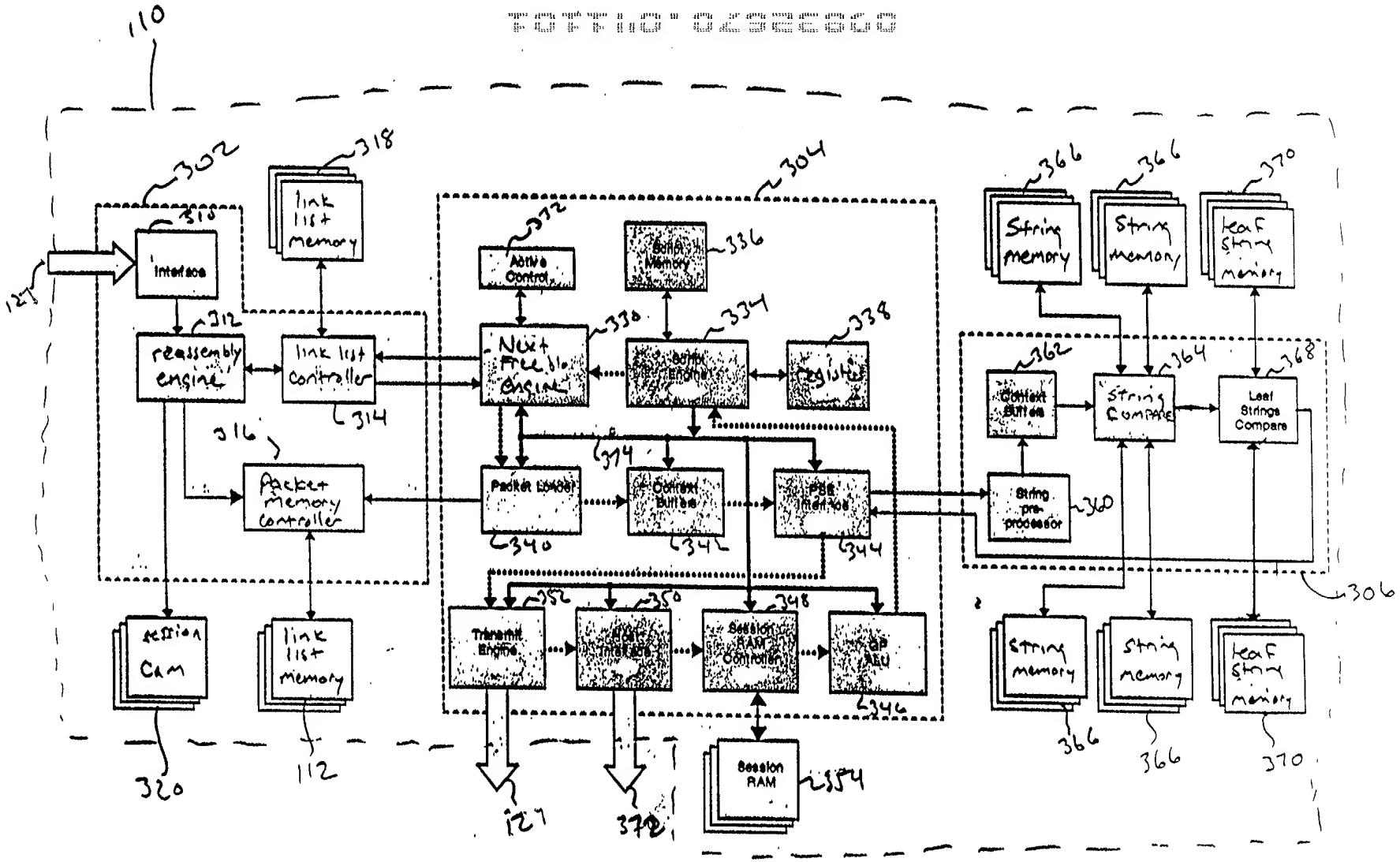
110
302
318
304
366
366
370
Interface
link list memory
Active Control
Buffer Memory
String memory
String memory
Leaf String memory
reassembly engine
link list controller
Next Free Buffer Engine
Buffer Engine
Registers
Context Buffers
String Compare
Leaf Strings Compare
316
Packet memory controller
Packet Loader
Context Buffers
PSE Interface
String pre-processor
360
Action CAM
link list memory
Transmit Engine
PSE Interface
Session RAM Controller
QP ALU
String memory
String memory
Leaf String memory
320
112
127
372
Session RAM
354
306

FIG. 5

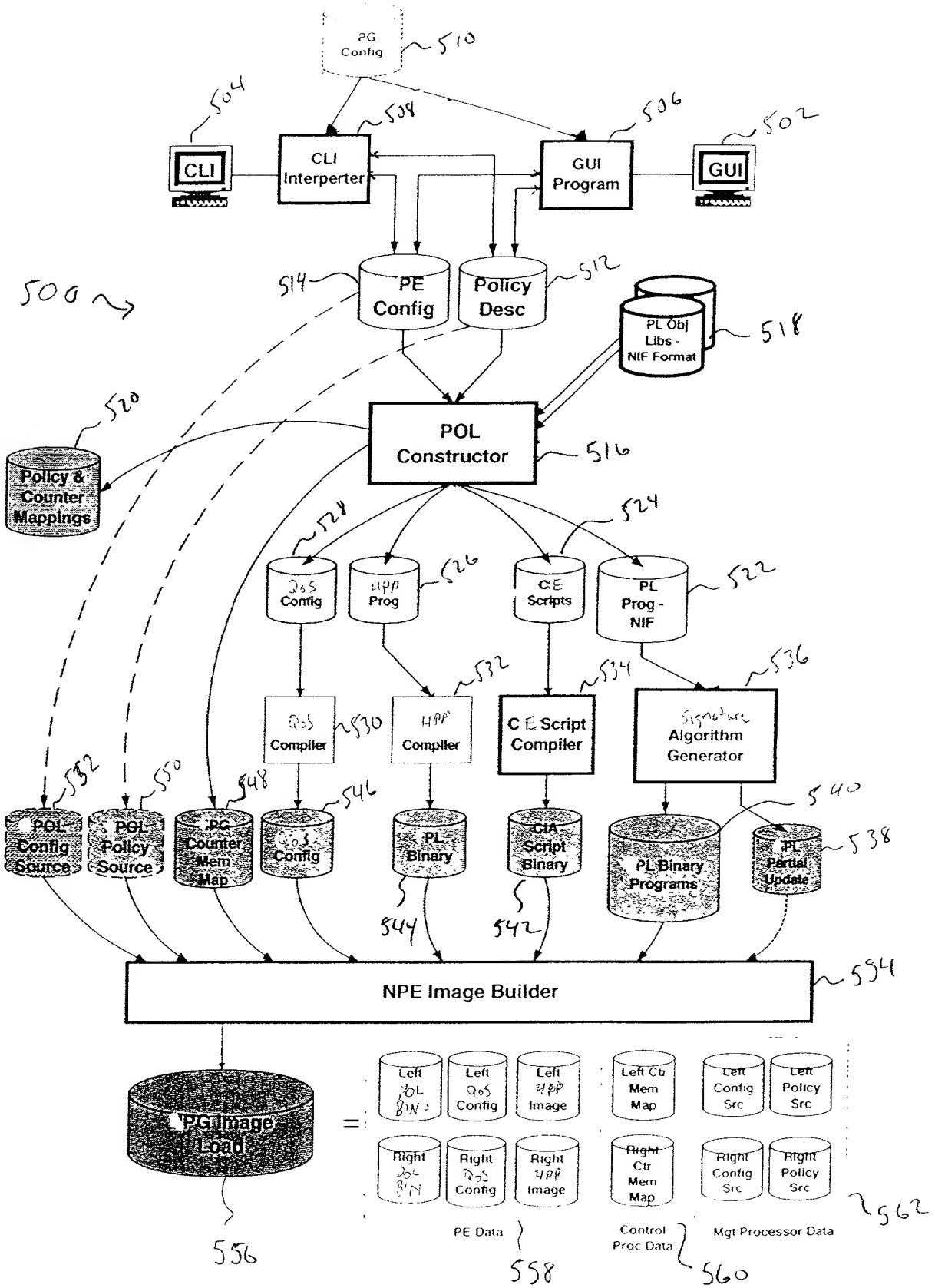
PG Config
510
504
508
506
502
CLI
CLI Interperter
GUI Program
GUI
500
514
PE Config
Policy Desc
512
PL Obj Libs - NIF Format
518
520
POL Constructor
516
Policy & Counter Mappings
524
524
QoS Config
HPP Prog
526
CE Scripts
PL Prog - NIF
522
532
534
536
QoS Compiler
530
HPP Compiler
C E Script Compiler
Signature Algorithm Generator
582
550
548
546
540
POL Config Source
POL Policy Source
PG Counter Mem Map
QoS Config
PL Binary
CTA Script Binary
PL Binary Programs
PL Partial Update
538
544
542
NPE Image Builder
554
PG Image Load
556
=
Left POL BIN
Left QoS Config
Left HPP Image
Left Ctr Mem Map
Left Config Src
Left Policy Src
Right POL BIN
Right QoS Config
Right HPP Image
Right Ctr Mem Map
Right Config Src
Right Policy Src
562
PE Data
558
Control Proc Data
Mgt Processor Data
560

FIG 6

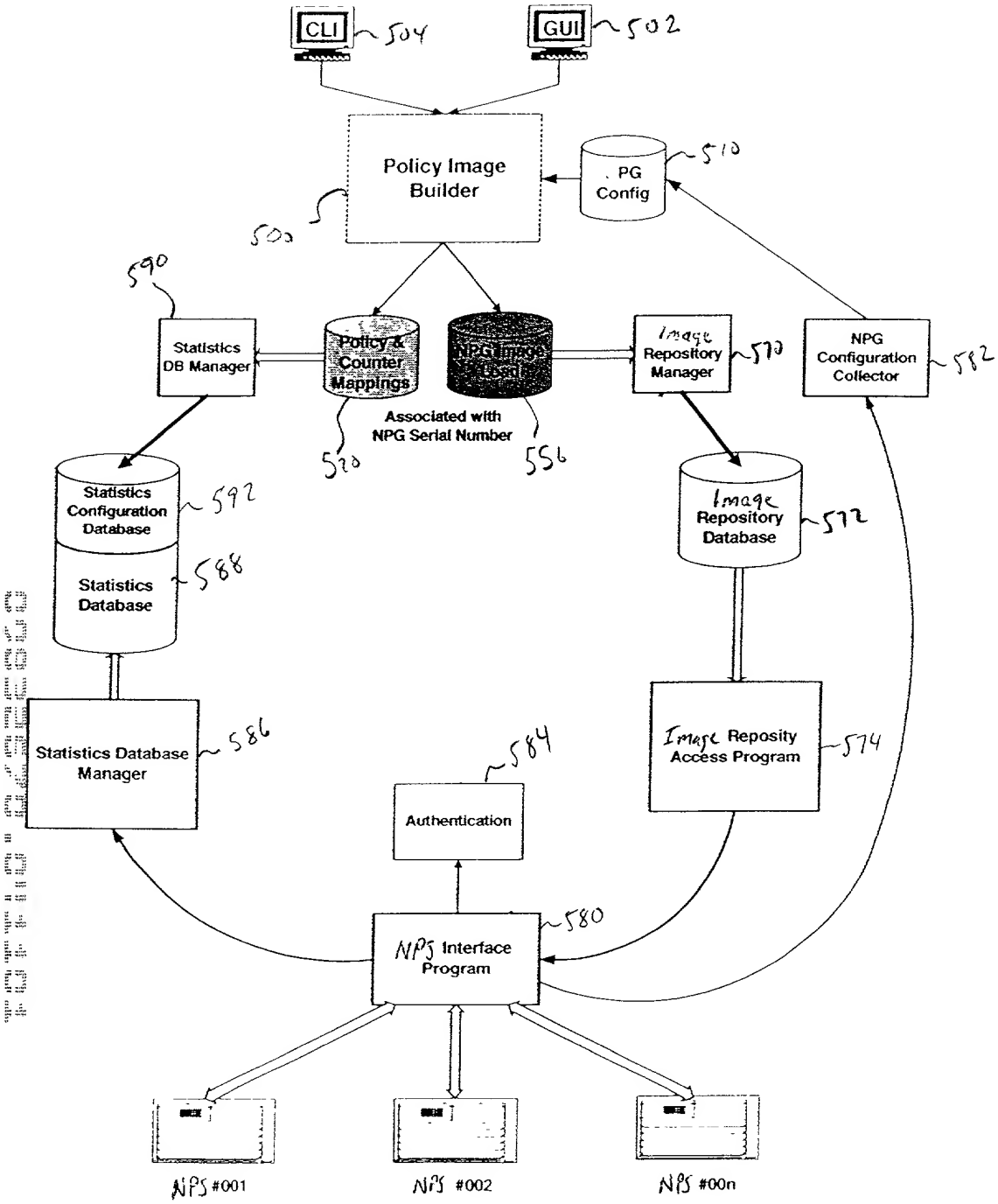
CLI
504
GUI
502
Policy Image Builder
PG Config
510
500
590
Statistics DB Manager
Policy & Counter Mappings
NPG Image Unit
Image Repository Manager
570
NPG Configuration Collector
582
Associated with NPG Serial Number
520
556
Statistics Configuration Database
592
Statistics Database
588
Image Repository Database
572
Statistics Database Manager
586
Image Reposity Access Program
574
584
Authentication
580
NPS Interface Program
NPS #001
NPS #002
NPS #00n

FIG. 7